

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1501DRW

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *

SESSION RESUMED IN FILE 'REGISTRY' AT 07:56:14 ON 21 APR 2003

FILE 'REGISTRY' ENTERED AT 07:56:14 ON 21 APR 2003

COPYRIGHT (C) 2003 American Chemical Society (ACS)

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	25.19	25.40

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.62	-0.62

=> e n,n-didodecylacrylamide/cn

E1	1	N,N-DIDODECYL-P-TOLUIDINE/CN
E2	1	N,N-DIDODECYLACETAMIDE/CN
E3	1 -->	N,N-DIDODECYLACRYLAMIDE/CN
E4	1	N,N-DIDODECYLACRYLAMIDE-N-ISOPROPYLACRYLAMIDE COPOLYMER/CN
E5	1	N,N-DIDODECYLAMINE/CN
E6	1	N,N-DIDODECYLANILINE/CN
E7	1	N,N-DIDODECYLCARBAMOYL CHLORIDE/CN
E8	1	N,N-DIDODECYLCYANAMIDE/CN
E9	1	N,N-DIDODECYLETHANOLAMINE/CN
E10	1	N,N-DIDODECYLETHENESULFONAMIDE POLYMER/CN
E11	1	N,N-DIDODECYLETHYLAMINE/CN
E12	1	N,N-DIDODECYLGLYCIDYLAMINE/CN

=> s e3

L4 1 "N,N-DIDODECYLACRYLAMIDE"/CN

=> d rn

L4 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS
RN 86291-70-5 REGISTRY

no p-hms with acryl/c

=> s (79-10-7 and 86191-70-5)/cn and pms/ci and 2/nc

0 79-10-7/CN

0 86191-70-5/CN

962103 PMS/CI

2715630 2/NC

L5 0 (79-10-7 AND 86191-70-5)/CN AND PMS/CI AND 2/NC

=> s (79-10-7 and 86291-70-5)/cn and pms/ci and 2/nc

0 79-10-7/CN

0 86291-70-5/CN

962103 PMS/CI

2715630 2/NC

L6 0 (79-10-7 AND 86291-70-5)/CN AND PMS/CI AND 2/NC

=> s (79-10-7 and 86291-70-5)/cn and pms/ci and 3/nc

0 79-10-7/CN

0 86291-70-5/CN

962103 PMS/CI

629265 3/NC

L7 0 (79-10-7 AND 86291-70-5)/CN AND PMS/CI AND 3/NC

=> s (79-10-7 and 86291-70-5)/cn and pms/ci

0 79-10-7/CN

0 86291-70-5/CN

962103 PMS/CI
L6 0 (79-10-7 AND 86291-70-5)/CN AND PMS/CI

=> logoff hold

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

95.69

95.90

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-0.62

-0.62

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 08:00:14 ON 21 APR 2003

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1501DRW

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'REGISTRY' AT 08:44:36 ON 21 APR 2003
FILE 'REGISTRY' ENTERED AT 08:44:36 ON 21 APR 2003
COPYRIGHT (C) 2003 American Chemical Society (ACS)

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	95.69	95.90

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.62	-0.62

=> e polyacrylic acid sodium salt/cn

E1	1	POLYACRYLIC ACID ESTER WITH POLYETHYLENE GLYCOL MONOMETHYL ETHER AND DIMETHYLAMINOETHANOL/CN
E2	1	POLYACRYLIC ACID ESTER WITH POLYETHYLENE GLYCOL MONOMETHYL ETHER AND DIMETHYLAMINOISOPROPANOL/CN
E3	0 -->	POLYACRYLIC ACID SODIUM SALT/CN
E4	1	POLYACRYLIC ACID SODIUM SALT COMPD. WITH CETYLTRIMETHYL AMMONIUM BROMIDE/CN
E5	1	POLYACRYLIC ACID SODIUM SALT COMPD. WITH TETRADECYLTRIMETHYL AMMONIUM BROMIDE/CN
E6	1	POLYACRYLIC ACID TRIISOPROPANOLAMINE SALT/CN
E7	1	POLYACRYLIC ACID, LITHIUM-TRIETHANOLAMINE SALT/CN
E8	1	POLYACRYLIC ACID-CHITOSAN COMPLEX/CN
E9	1	POLYACRYLIC ACID-ETHYLENIMINE-HYDROCHLORIC ACID POLYMER/CN
E10	1	POLYACRYLIC ACID-N-HYDROXYETHYL ETHYLENIMINE-HYDROCHLORIC ACID POLYMER/CN
E11	1	POLYACRYLIC ACID-POLYETHYLENE GLYCOL MONO(OCTYLPHENYL) ETHER COMPLEX/CN
E12	1	POLYACRYLIC ACID-SILVER ACRYLATE-COBALT ACRYLATE COPOLYMER/CN

=> e polyacrylic acid/cn

E1	1	POLYACRYLHYDRAZIDE/CN
E2	1	POLYACRYLHYDRAZINE/CN
E3	0 -->	POLYACRYLIC ACID/CN
E4	1	POLYACRYLIC ACID 2-HYDROXYETHYL ESTER/CN
E5	1	POLYACRYLIC ACID BARIUM LITHIUM SALT/CN
E6	1	POLYACRYLIC ACID BUTYL ESTER/CN
E7	1	POLYACRYLIC ACID ESTER WITH POLYETHYLENE GLYCOL MONOMETHYL ETHER AND DIMETHYLAMINOETHANOL/CN
E8	1	POLYACRYLIC ACID ESTER WITH POLYETHYLENE GLYCOL MONOMETHYL ETHER AND DIMETHYLAMINOISOPROPANOL/CN
E9	1	POLYACRYLIC ACID SODIUM SALT COMPD. WITH CETYLTRIMETHYL AMMONIUM BROMIDE/CN
E10	1	POLYACRYLIC ACID SODIUM SALT COMPD. WITH TETRADECYLTRIMETHYL AMMONIUM BROMIDE/CN
E11	1	POLYACRYLIC ACID TRIISOPROPANOLAMINE SALT/CN
E12	1	POLYACRYLIC ACID, LITHIUM-TRIETHANOLAMINE SALT/CN

=> e poly(acrylic acid) sodium salt/cn

E1	1	POLY(ACRYLIC ACID) RUBIDIUM SALT/CN
E2	1	POLY(ACRYLIC ACID) SILVER SALT/CN
E3	1 -->	POLY(ACRYLIC ACID) SODIUM SALT/CN
E4	1	POLY(ACRYLIC ACID) SODIUM SALT COMPD. WITH POLY(ETHYLENIMINE)/CN
E5	1	POLY(ACRYLIC ACID) SODIUM SALT-POLY(2-(DIMETHYLAMINO)ETHYL ACRYLATE) COMPLEX/CN

*no polyacrylic acid
of C12/C14
with
no amide
or poly "*

E6	1	POLY(ACRYLIC ACID) SODIUM ZIRCONIUM SALT/CN
E7	1	POLY(ACRYLIC ACID) STRONTIUM SALT/CN
E8	1	POLY(ACRYLIC ACID) TERBIUM SALT/CN
E9	1	POLY(ACRYLIC ACID) TETRADECYLAMINE SALT/CN
E10	1	POLY(ACRYLIC ACID) TETRAMETHYLAMMONIUM SALT/CN
E11	1	POLY(ACRYLIC ACID) TIN SALT/CN
E12	1	POLY(ACRYLIC ACID) TITANIUM SALT/CN

=> s e3

L9 1 "POLY(ACRYLIC ACID) SODIUM SALT"/CN

=> d rn

L9 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS

RN 9003-04-7 REGISTRY

=> w (9003-04-7 and 86291-70-5)/crn and pms/ci

W IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s (9003-04-7 and 86291-70-5)/crn and pms/ci

42 9003-04-7/CRN

8 86291-70-5/CRN

962103 PMS/CI

L10 0 (9003-04-7 AND 86291-70-5)/CRN AND PMS/CI

=> acrylic acid sodium salt/cn

ACRYLIC IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> e acrylic acid sodium salt/cn

E1 1 ACRYLIC ACID RESIN/CN

E2 1 ACRYLIC ACID SALICYLANILIDE ESTER/CN

E3 0 --> ACRYLIC ACID SODIUM SALT/CN

E4 1 ACRYLIC ACID SODIUM SALT-3-ALLYLOXY-1,2-PROPANEDIOL-ETHYLENE
OXIDE-MALEIC ACID DISODIUM SALT COPOLYMER/CN

E5 1 ACRYLIC ACID SODIUM SALT-LUTIDINE N-OXIDE HYDROCHLORIDE (1:1
) COMPLEX/CN

E6 1 ACRYLIC ACID SODIUM SALT-LUTIDINE N-OXIDE HYDROCHLORIDE (1:1
) COMPLEX HOMOPOLYMER/CN

E7 1 ACRYLIC ACID SODIUM SALT-MALEIC ACID DIAMMONIUM SALT-SORBITA
N MONOALLYL ETHER COPOLYMER/CN

E8 1 ACRYLIC ACID SODIUM SALT-METHYLENEBISACRYLAMIDE COPOLYMER/CN

E9 1 ACRYLIC ACID SODIUM SALT-POLYETHYLENE GLYCOL ALLYL ETHER ACR
YLATE-POLYETHYLENE GLYCOL DIACRYLATE COPOLYMER/CN

E10 1 ACRYLIC ACID SODIUM SALT-POLYETHYLENE GLYCOL ALLYL ETHER ACR
YLATE-POLYETHYLENE GLYCOL DIMETHACRYLATE-POLYETHYLENE GLYCOL
METHYL ETHER METHACRYLATE COPOLYMER/CN

E11 1 ACRYLIC ACID TERT-BUTYL ACRYLATE-DIVINYLBENZENE-STYRENE COPO
LYMER/CN

E12 1 ACRYLIC ACID TERT-BUTYLAMIDE-4-ACRYLOYLOXY-1,2,2,6,6-PENTAME
THYLPYPERIDINE COPOLYMER/CN

=> s sodium acrylate/cn

L11 1 SODIUM ACRYLATE/CN

=> d rn

L11 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS

RN 7446-81-3 REGISTRY

=> s (7446-8-3 and 86291-70-5)/crn and pms/ci

0 7446-8-3/CRN
8 86291-70-5/CRN
962103 PMS/CI

L12 0 (7446-8-3 AND 86291-70-5)/CRN AND PMS/CI

=> logoff hold

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION

FULL ESTIMATED COST

115.33	115.54
--------	--------

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION

CA SUBSCRIBER PRICE

-0.62	-0.62
-------	-------

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 08:48:08 ON 21 APR 2003

=> s acrylic acid/cn
L2 1 ACRYLIC ACID/CN

=> d rn

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS
RN 79-10-7 REGISTRY

=> d ll rn

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS
RN 1506-53-2 REGISTRY

=> s (1506-53-2 and 79-10-7)/crn and pms/ci and 2/nc

82 1506-53-2/CRN

50681 79-10-7/CRN

962103 PMS/CI

2715630 2/NC

L3 1 (1506-53-2 AND 79-10-7)/CRN AND PMS/CI AND 2/NC

=> d iall

L3 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS
RN 127864-80-6 REGISTRY

CN 2-Propenoic acid, polymer with N-dodecyl-2-propenamide (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2-Propenamide, N-dodecyl-, polymer with 2-propenoic acid (9CI)

OTHER NAMES:

CN Acrylic acid-N-dodecylacrylamide copolymer

MF (C15 H29 N O . C3 H4 O2)x

CI PMS, COM

PCT Polyacrylic

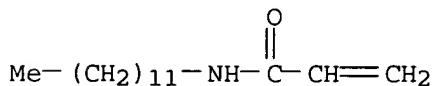
SR CA

LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 1506-53-2

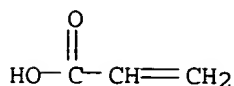
CMF C15 H29 N O



CM 2

CRN 79-10-7

CMF C3 H4 O2



4 REFERENCES IN FILE CA (1962 TO DATE)

4 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 130:267965 CA

TITLE: Adsorption of Hydrophobically Modified Poly(acrylic

acid) Sodium Salt at the Air/Water Interface by
Combined Surface Tension and X-ray Reflectivity
Measurements

AUTHOR(S): Millet, Frederic; Nedyalkov, Michael; Renard,
Benjamin; Perrin, Patrick; Lafuma, Françoise;
Benattar, Jean-Jacques
CORPORATE SOURCE: Service de Physique de l'Etat Condense, CEA/Saclay,
Gif sur Yvette, F-91191, Fr.
SOURCE: Langmuir (1999), 15(6), 2112-2119
CODEN: LANGD5; ISSN: 0743-7463
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
CLASSIFICATION: 36-5 (Physical Properties of Synthetic High Polymers)

ABSTRACT:

The adsorption at the air/water interface of hydrophobically modified poly(acrylic acid) sodium salt (HMPAANA) with various degrees of grafting and lengths of graft has been investigated using both tensiometry and X-ray reflectivity techniques. Tensiometry has provided the Gibbs adsorption isotherms and has revealed that HMPAANA assocg. copolymers behave like low mol. wt. surfactants with surface tensions leveling off at the crit. aggregate concns. (cac) detd. from viscosity measurements. However, very long times (up to 2 days) were required to achieve equil. X-ray reflectivity measurements have permitted us to detect a monomer units-rich zone at the air/water interface, corresponding to the proximal zone of the adsorbed polymer layer. This zone thickens with increasing either the bulk polymer concn. or the salt concn. but remains unchanged with varying the polymer backbone mol. wt. The polymer concn. within the zone is 40% in vol. fraction with a bulk concn. equal to cac. By coupling both techniques, we show that the Gibbs adsorption theory is valid for HMPAANA copolymers and that the longest polymer loops and tails extending into the sublayer do not contribute to the surface activity. As a matter of fact, a good agreement between the values of the excess surface concn. Γ_{GAMMA} is obtained using both techniques.

SUPPL. TERM: adsorption surface hydrophobically modified polyacrylic acid
sodium salt; alkylacrylamide copolymer acrylic acid surface
adsorption

INDEX TERM: Adsorbed substances
Adsorption
Surface
Surface tension

(adsorption of hydrophobically modified poly(acrylic acid) sodium salt at the air/water interface by combined surface tension and x-ray reflectivity measurements)

INDEX TERM: 34399-25-2, Acrylic acid-n-octadecylacrylamide copolymer
127864-80-6, Acrylic acid-n-dodecylacrylamide copolymer

ROLE: PRP (Properties)
(adsorption of hydrophobically modified poly(acrylic acid) sodium salt at the air/water interface by combined surface tension and x-ray reflectivity measurements)

REFERENCE COUNT: 49 THERE ARE 49 CITED REFERENCES AVAILABLE FOR THIS RECORD.

REFERENCE(S): (1) Alexander, S; J Phys (Paris) 1977, V38, P983 CAPLUS
(2) Anon; Polymer Handbook 3rd ed 1989, PVII
(3) Auroy, P; Macromolecules 1991, V24, P5158 CAPLUS
(4) Auroy, P; Phys Rev Lett 1991, V66, P719 CAPLUS
(5) Benattar, J; Prog Colloid Polym Sci 1997, V105, P1113
(6) Beverung, C; Biophys Chem 1998, V70, P121 CAPLUS
(7) Born, F; Principles of Optics 6th ed 1984, P51
(8) Chang, S; J Colloid Interface Sci 1978, V67, P255 CAPLUS
(9) Collet, J; Electrophoresis 1996, V17, P1202 CAPLUS
(10) Daillant, J; Europhys Lett 1989, V8, P453 CAPLUS
(11) Damodaran, S; Biochim Biophys Acta 1988, V954, P253 CAPLUS
(12) de Feijter, J; J Colloid Interface Sci 1981, V81, P91 CAPLUS
(13) de Gennes, P; Adv Colloid Interface Sci 1987, V27, P189 CAPLUS

- (14) de Gennes, P; Macromolecules 1980, V13, P1069 CAPLUS
- (15) de Gennes, P; Macromolecules 1981, V14, P1637 CAPLUS
- (16) de Gennes, P; Scaling concepts in polymers physics 1979
- (17) Deme, B; J Phys Chem B 1997, V101, P8250 CAPLUS
- (18) Des Cloizeaux, J; J Phys (Paris) 1988, V49, P699 CAPLUS
- (19) Flerer, G; Polymers at interfaces 1993
- (20) Goddard, E; Interactions of surfactants with polymers and proteins; Chapter 2 1993
- (21) Graham, D; J Colloid Interface Sci 1979, V70, P403 CAPLUS
- (22) Guenoun, P; Macromolecules 1996, V29, P3965 CAPLUS
- (23) Hoeve, C; J Chem Phys 1965, V42, P2558 CAPLUS
- (24) Israelachvili, J; Intermolecular and surface forces 1985
- (25) Kent, M; Macromolecules 1992, V25, P6240 CAPLUS
- (26) Kent, M; Macromolecules 1996, V29, P2843 CAPLUS
- (27) Lankveld, J; J Colloid Interface Sci 1972, V41, P454 CAPLUS
- (28) Lochhead, R; Colloids Surf A 1994, V88, P27 CAPLUS
- (29) L'Alloret, F; Ph D Thesis Universite Pierre et Marie Curie 1996
- (30) Manning, G; J Chem Phys 1969, V51, P924 CAPLUS
- (31) McRitchie, F; Colloids Surf 1989, V41, P25
- (32) McRitchie, F; J Colloid Interface Sci 1963, V18, P453
- (33) Millet, F; Submitted for publication
- (34) Milner, S; Europhys Lett 1988, V5, P413 CAPLUS
- (35) Nahringsbauer, I; J Colloid Interface Sci 1995, V176, P318 CAPLUS
- (36) Okubo, T; J Colloid Interface Sci 1988, V125, P386 CAPLUS
- (37) Peace, S; Macromolecules 1998, V31, P1261 CAPLUS
- (38) Perrin, P; J Colloid Interface Sci 1998, V197, P317 CAPLUS
- (39) Perrin, P; Prog Colloid Poly Sci 1997, V105, P228 CAPLUS
- (40) Poncet, C; Langmuir 1998, V14, P1697 CAPLUS
- (41) Rios, H; J Colloid Interface Sci 1993, V156, P388 CAPLUS
- (42) Rios, H; J Colloid Interface Sci 1994, V165, P259 CAPLUS
- (43) Schalchli, A; J Chem Soc Faraday Trans 1996, V92, P553 CAPLUS
- (44) Scheutjens, J; J Phys Chem 1980, V84, P178 CAPLUS
- (45) Semenov, A; Macromolecules 1996, V29, P2179 CAPLUS
- (46) Silberberg, A; J Chem Phys 1967, V46, P1105 CAPLUS
- (47) Wang, K; Polym Bull 1989, V20, P577
- (48) Ward, A; J Chem Phys 1946, V14, P453 CAPLUS
- (49) Ward, A; Rec Trav Chim 1952, V71, P572 CAPLUS

REFERENCE 2

ACCESSION NUMBER: 130:183170 CA
 TITLE: Photonic and electronic applications of mesoscopic polymer assemblies
 AUTHOR(S): Shimomura, Masatsugu; Koito, Takeo; Maruyama, Norihiko; Arai, Keiko; Nishida, Jin; Grasjo, Lars; Karthaus, Olaf; Ijiro, Kuniharu
 CORPORATE SOURCE: Research Institute for Electronic Science, Hokkaido University, Sapporo, 060-0812, Japan
 SOURCE: Molecular Crystals and Liquid Crystals Science and Technology, Section A: Molecular Crystals and Liquid Crystals (1998), 322, 305-312
 CODEN: MCLCE9; ISSN: 1058-725X
 PUBLISHER: Gordon & Breach Science Publishers
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 CLASSIFICATION: 37-5 (Plastics Manufacture and Processing)
 Section cross-reference(s): 73

ABSTRACT:

Mesoscopic two-dimensional patterns, regular dots, stripes, and honeycomb networks were formed by casting dil. org. solns. of polymers on solid surfaces, mica, glass, silicon wafers, etc. The poly-ion complexes are bilayer-forming charged amphiphiles and counter-charged polyelectrolytes, e.g., dihexadecyldimethylammonium bromide and poly(styrene sulfonate), in chloroform soln. The photocond. of single mol. cord of poly(hexylthiophene) was measured; the cord was obtained by casting of a chloroform soln. of the conducting polymer. The honeycomb patterns were formed of a copolymer of acrylic acid and N-dodecyl acrylamide, from droplets of the cast soln. on an ITO/glass electrode; a coating with thin gold film was applied on the droplets and substrate, then the org. polymer was dissolved in chloroform and the ITO substrate was removed by sonication. Dynamic patterns, so-called dissipative structures, formed in the non-equil. thermodyn. process of solvent evapn., are fixed as the two-dimensional honeycomb patterns on substrates. Potential photonic and electronic applications of the mesoscopic polymer patterns are outlined.

SUPPL. TERM:

dihexadecyldimethylammonium bromide polystyrene sulfonate
assembly mesoscopic pattern; dot mesoscopic pattern
polyelectrolyte complex photonics; conducting polymer cord
mesoscopic pattern polythiophene photocond; acrylic polymer
droplet gold mesoscopic honeycomb pattern

INDEX TERM:

Polyelectrolytes
(cationic; microstructure and photocond. of mesoscopic
pattern polymer assemblies from cast solns. for photonics
and electronics)

INDEX TERM:

Honeycomb structures
(mesoscopic; microstructure and photocond. of mesoscopic
pattern polymer assemblies from cast solns. for photonics
and electronics)

INDEX TERM:

Amphiphiles
Conducting polymers
Dissipative structures
Molecular electronics
Photoconductivity
Photonics
(microstructure and photocond. of mesoscopic pattern
polymer assemblies from cast solns. for photonics and
electronics)

INDEX TERM:

Polymers, properties

ROLE: PEP (Physical, engineering or chemical process); PRP
(Properties); PROC (Process)

(polythiophenes; microstructure and photocond. of
mesoscopic pattern polymer assemblies from cast solns.
for photonics and electronics)

INDEX TERM:

67-66-3, Chloroform, properties 7440-57-5, Gold,
properties 50851-57-5 50926-11-9, Indium tin oxide
70755-47-4, Dihexadecyldimethylammonium bromide
104934-50-1, Poly(3-hexylthiophene) 127864-80-6, Acrylic
acid-N-dodecyl acrylamide copolymer

ROLE: PEP (Physical, engineering or chemical process); PRP
(Properties); PROC (Process)

(microstructure and photocond. of mesoscopic pattern
polymer assemblies from cast solns. for photonics and
electronics)

REFERENCE COUNT:

10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS
RECORD.

- (1) Cazabat, A; Fluid Physics Lecture Notes of Summer
Schools 1994, P229
- (2) Hasegawa, H; Comprehensive Polymer Science Chap 14 1996,
P497 CAPLUS
- (3) Karthaus, O; Chem Lett 1996, P821 CAPLUS
- (4) Maruyama, N; Supramol Sci in press
- (5) Maruyama, N; Thin Solid Films in press
- (6) Notzel, R; Nature 1994, V369, P131
- (7) Reiter, G; Langmuir 1993, V9, P1344 CAPLUS
- (8) Shimomura, M; Prog Poly Sci 1993, V18, P295 CAPLUS

- (9) Widawski, G; Nature 1994, V369, P387 CAPLUS
(10) Xia, Y; Microelectron Eng 1996, V32, P255 CAPLUS

REFERENCE 3

ACCESSION NUMBER: 118:39609 CA
TITLE: Copolymers based on N-alkylacrylamides, their preparation, and their use as thickeners in shampoo compositions
INVENTOR(S): Mondet, Jean; Lion, Bertrand
PATENT ASSIGNEE(S): Oreal S. A., Fr.
SOURCE: Eur. Pat. Appl., 11 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: French
INT. PATENT CLASSIF.:
MAIN: C08F220-54
CLASSIFICATION: 35-4 (Chemistry of Synthetic High Polymers)
Section cross-reference(s): 62
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 494022	A1	19920708	EP 1991-403559	19911227
EP 494022	B1	19971008		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE				
FR 2671088	A1	19920703	FR 1990-16307	19901227
FR 2671088	B1	19940415		
CA 2058543	AA	19920628	CA 1991-2058543	19911224
JP 05093018	A2	19930416	JP 1991-344493	19911226
JP 3207228	B2	20010910		
AT 159036	E	19971015	AT 1991-403559	19911227
ES 2109261	T3	19980116	ES 1991-403559	19911227
US 5324765	A	19940628	US 1993-56774	19930504
PRIORITY APPLN. INFO.:				
			FR 1990-16307	19901227
			US 1991-813388	19911227

ABSTRACT:

Polymers for the title use are prepd. by polymn. of mixts. contg. .gtoreq.30% unsatd. carboxylic acid(s), .gtoreq.30% N-C8-30-alkylacrylamide(s), and 0-40% unsatd. hydrophilic monomers, with the polymers being neutralizable to salts. An aq. soln. of acrylamide-acrylic acid-N-dodecylacrylamide copolymer 2-amino-2-methylpropanol salt contg. ethoxylated sodium lauryl sulfate and NaCl had viscosity 3.00 Pa-s and good gel texture.

SUPPL. TERM: alkyl acrylamide copolymer thickener; unsatd carboxylic acid copolymer thickener; shampoo alkylacrylamide copolymer thickener; dodecylacrylamide copolymer thickener shampoo

INDEX TERM: Polymerization
(of N-alkylacrylamides and unsatd. carboxylic acids)

INDEX TERM: Shampoos
(thickeners for, N-alkylacrylamide-unsatd. acid copolymers as)

INDEX TERM: Thickening agents
(N-alkylacrylamide-unsatd. acid copolymers, for shampoos)

INDEX TERM: 1506-53-2P, N-Dodecylacrylamide 10124-68-2P, N-Octylacrylamide

ROLE: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and polymn. of)

INDEX TERM: 145289-04-9P, Acrylamide-acrylic acid-N-dodecylacrylamide copolymer 2-amino-2-methylpropanol salt 145289-05-0P, Acrylamide-acrylic acid-N-octylacrylamide copolymer 2-amino-2-methylpropanol salt 145289-06-1P, Acrylamide-acrylic acid-N-dodecylacrylamide-methacrylic acid copolymer 2-amino-2-methylpropanol salt 145289-07-2P, Acrylic acid-N-dodecylacrylamide copolymer 2-amino-2-methylpropanol salt

ROLE: PREP (Preparation)

(prepn. of, as thickening agents for shampoos)

INDEX TERM: 127864-80-6P, Acrylic acid-N-dodecylacrylamide copolymer
145289-01-6P, Acrylamide-acrylic acid-N-dodecylacrylamide
copolymer 145289-02-7P, Acrylamide-acrylic
acid-N-octylacrylamide copolymer 145289-03-8P,
Acrylamide-acrylic acid-N-dodecylacrylamide-methacrylic acid
copolymer

ROLE: PREP (Preparation)

(prepn. of, for thickening agents for shampoos)

INDEX TERM: 814-68-6, Acryloyl chloride

ROLE: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with alkylamines)

REFERENCE 4

ACCESSION NUMBER: 113:31803 CA
TITLE: Diffusion-transfer photographic receptor unit
containing stripping layer
INVENTOR(S): Shirato, Kentaro; Yamanochi, Junichi; Shinagawa, Yukio
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 27 pp.
CODEN: JKXXAF

DOCUMENT TYPE: Patent
LANGUAGE: Japanese

INT. PATENT CLASSIF.:

MAIN: G03C007-00

CLASSIFICATION: 74-2 (Radiation Chemistry, Photochemistry, and
Photographic and Other Reprographic Processes)

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01248153	A2	19891003	JP 1988-76861	19880330
JP 08007426	B4	19960129		
PRIORITY APPLN. INFO.:			JP 1988-76861	19880330

ABSTRACT:

In the title receptor unit having on a support at least an image-receiving layer and a stripping layer comprising a copolymer, the copolymer has the formula $-(CH_2CX)_x(A)_v(B)_z-$ (X = H, halo, C1-4 alkyl; Y = monovalent group contg. ≥ 7 hydrocarbon group; A = repeating unit derived from water- and/or an aq. alk. soln.-sol. ethylenic unsatd. monomer; B = repeating unit derived from ethylenic unsatd. monomers other than those mentioned above; x = 10-90, v = 90-10, and z = 0-30%).

SUPPL. TERM: diffusion transfer photog receptor unit

INDEX TERM: Photographic films

(diffusion-transfer, receptors, stripping layers for)

INDEX TERM: 25776-32-3, 2-Ethylhexyl acrylate-methacrylic acid copolymer
28062-60-4, Acrylic acid-dodecyl methacrylate copolymer
89162-54-9 127864-80-6 127991-65-5

ROLE: USES (Uses)

(diffusion-transfer photog. receptor unit contg.
stripping layer of)

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	25.19	25.40

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.62	-0.62

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 07:15:14 ON 21 APR 2003

FILE 'HOME' ENTERED AT 07:11:57 ON 21 APR 2003

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 07:12:10 ON 21 APR 2003

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2003 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 20 APR 2003 HIGHEST RN 503529-60-0

DICTIONARY FILE UPDATES: 20 APR 2003 HIGHEST RN 503529-60-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNnote 27, Searching Properties in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> e N-dodecylacrylamide/cn

E1	1	N-DODECYLACETOACETAMIDE/CN
E2	1	N-DODECYLACRIDONE/CN
E3	1 -->	N-DODECYLACRYLAMIDE/CN
E4	1	N-DODECYLACRYLAMIDE-1-PYRENYLACRYLAMIDE-4-VINYLPYRIDINE COPOLYMER/CN
E5	1	N-DODECYLACRYLAMIDE-1-PYRENYLMETHYL ACRYLATE COPOLYMER/CN
E6	1	N-DODECYLACRYLAMIDE-2-(4-(4'-METHYL-2,2'-BIPYRIDYL))ETHYL ACRYLATE COPOLYMER/CN
E7	1	N-DODECYLACRYLAMIDE-2-VINYLNAPHTHALENE COPOLYMER/CN
E8	1	N-DODECYLACRYLAMIDE-2-VINYLPYRIDINE COPOLYMER METHYLBROMIDE/CN
E9	1	N-DODECYLACRYLAMIDE-4-VINYL-4'-METHYL-2,2'-BIPYRIDINE COPOLYMER/CN
E10	1	N-DODECYLACRYLAMIDE-4-VINYLPYRIDINE COPOLYMER/CN
E11	1	N-DODECYLACRYLAMIDE-4-VINYLPYRIDINE COPOLYMER QUATERNARY AMMONIUM SALT WITH 11-BROMO-1-UNDECANOL, ACRYLATE ESTER/CN
E12	1	N-DODECYLACRYLAMIDE-4-VINYLPYRIDINE POLYMER/CN

=> s e3

L1 1 N-DODECYLACRYLAMIDE/CN

=> d cn

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS
 CN 2-Propenamide, N-dodecyl- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Acrylamide, N-dodecyl- (6CI, 7CI, 8CI)
 OTHER NAMES:
 CN **N-Dodecylacrylamide**

=> e n,n-didodecylamine/cn

E1	1	N,N-DIDODECYLACRYLAMIDE-N-ISOPROPYLACRYLAMIDE COPOLYMER/CN
E2	1	N,N-DIDODECYLACRYLAMIDE-SODIUM ACRYLATE COPOLYMER/CN
E3	1 -->	N,N-DIDODECYLAMINE/CN
E4	1	N,N-DIDODECYLANILINE/CN
E5	1	N,N-DIDODECYLCARBAMOYL CHLORIDE/CN
E6	1	N,N-DIDODECYLCYANAMIDE/CN
E7	1	N,N-DIDODECYLETHANOLAMINE/CN
E8	1	N,N-DIDODECYLETHENESULFONAMIDE POLYMER/CN
E9	1	N,N-DIDODECYLETHYLAMINE/CN
E10	1	N,N-DIDODECYLGLYCIDYLAMINE/CN
E11	1	N,N-DIDODECYLHYDROXYLAMINE/CN
E12	1	N,N-DIDODECYLMETHYLAMINE/CN

=> s e3

L1 1 "N,N-DIDODECYLAMINE"/CN

=> d cn

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS on STN

CN 1-Dodecanamine, N-dodecyl- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Didodecylamine (6CI, 7CI, 8CI)

OTHER NAMES:

CN Alamine 204

CN Armeen 2-12

CN Di-n-dodecylamine

CN Dilaurylamine

CN **N,N-Didodecylamine**

CN NSC 16573

CN NSC 56451

=> e n,n-didodecylacrylamide/cn

E1	1	N,N-DIDODECYL-P-TOLUIDINE/CN
E2	1	N,N-DIDODECYLACETAMIDE/CN
E3	1 -->	N,N-DIDODECYLACRYLAMIDE/CN
E4	1	N,N-DIDODECYLACRYLAMIDE-N-ISOPROPYLACRYLAMIDE COPOLYMER/CN
E5	1	N,N-DIDODECYLACRYLAMIDE-SODIUM ACRYLATE COPOLYMER/CN
E6	1	N,N-DIDODECYLAMINE/CN
E7	1	N,N-DIDODECYLANILINE/CN
E8	1	N,N-DIDODECYLCARBAMOYL CHLORIDE/CN
E9	1	N,N-DIDODECYLCYANAMIDE/CN
E10	1	N,N-DIDODECYLETHANOLAMINE/CN
E11	1	N,N-DIDODECYLETHENESULFONAMIDE POLYMER/CN
E12	1	N,N-DIDODECYLETHYLAMINE/CN

=> s e3

L2 1 "N,N-DIDODECYLACRYLAMIDE"/CN

=> d cn

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS on STN

CN 2-Propenamide, N,N-didodecyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN **N,N-Didodecylacrylamide**